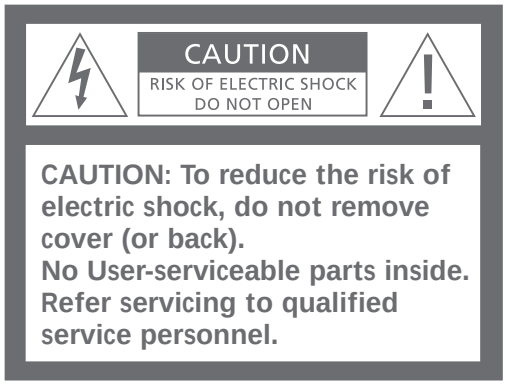
Guide


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: To reduce the risk of electric shock, do not remove cover (or back).
No User-serviceable parts inside.
Refer servicing to qualified service personnel.

WARNING: To prevent fire or electric shock, do not expose this appliance to rain or moisture. Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.

To completely disconnect this equipment from the AC Mains, disconnect the power supply cord plug from the AC receptacle.

This symbol indicates that a dangerous voltage constituting a risk of electric shock is present within this unit.

This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

CE This product fulfils the conditions stated in the EEU directives 89/336 and 73/23.

NOTE: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

This class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Contents

This Guide describes how to set up a pair of BeoLab 5 loudspeakers and prepare them for use. The Guide provides useful information when you set up the loudspeakers for the first time, and later, if you have to move or rearrange your setup.

For a description of the Beo4 remote control (optional accessory), please refer to the Guide enclosed with the Beo4 remote control – or to the Guides for your Bang & Olufsen audio or video system.

Follow the instructions in this Guide carefully.

Daily use, *4*
Find information about how to use BeoLab 5, about the built-in loudspeaker protection system, and how to clean BeoLab 5.

Set up BeoLab 5, *6*
Important information to consider before setting up BeoLab 5.

Connect cables, *8*
Find information about the sockets, and how to connect BeoLab 5 to your audio or video system.

Adapt BeoLab 5 to your system, *11*
Find out how to select an Option setting suitable to your particular setup.

Adapt BeoLab 5 to your room, *12*
Read about the unique *Adaptive Bass Control* system, and how to calibrate BeoLab 5 to your particular room.

Indicator lights, *14*
An overview of the indicator lights and the sound signals.

Index, *15*
Find the specific subject you want to know more about.

Daily use

When you have finished setting up the loudspeaker as described on the following pages, connect the entire audio or video system to the mains.

The loudspeaker is designed to be left in standby when not in use – so do not switch off the power.

The *Adaptive Bass Control* system ensures that the bass level suits the placement of the loudspeaker. Therefore, if you move the loudspeaker to a new position, you must perform a new calibration, as explained in *Adapt BeoLab 5 to your room* (pp. 12–13).

Switching on and off

When you switch on your Bang & Olufsen system, the loudspeaker switches on simultaneously. The indicator light shines green*, indicating that the loudspeaker is switched on.

When you switch off your Bang & Olufsen system, the indicator light switches to red, indicating that the loudspeaker is not in use.

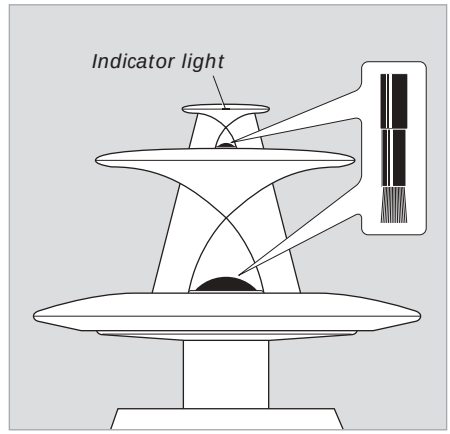
If the loudspeaker is connected to a non-Bang & Olufsen system, refer to the next page for information about switching on and off, turning the volume up and down, shifting the sound balance, and presetting the volume level.

Loudspeaker protection

The loudspeaker is equipped with a thermal protection system which prevents the units from overheating. Should an error occur, the system automatically switches the loudspeaker to standby – and the indicator light flashes red.

To restore the situation:
> Disconnect the loudspeaker from the mains.
> Allow the system time to reset (approx. 3–5 minutes).
> Reconnect the loudspeaker to the mains again.

Should the problem persist, contact your Bang & Olufsen retailer.



Do not touch the two speaker domes – they are very fragile. When cleaning is required, use the enclosed brush only!

Cleaning

Clean the loudspeaker surfaces using a soft, lint-free cloth which you have wrung firmly in lukewarm water.

Never use a vacuum cleaner to clean the two domes. However, the front speaker cloth may be cleaned with a vacuum cleaner with a brush nozzle, and set to the lowest suction level.

Never use alcohol or other solvents to clean any parts of the loudspeaker.

*NOTE! If the *Adaptive Bass Control* system has not yet been calibrated, the indicator light slowly flashes green. The calibration is explained in *Adapt BeoLab 5 to your room* (pp. 12–13).

Use BeoLab 5 with a non-Bang & Olufsen system

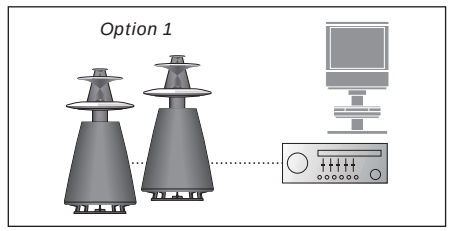
The loudspeakers must be connected as explained on page 10, and the *Option* number set to 1 or 4, as explained on page 11.

Operate your non-Bang & Olufsen system as you normally would. However, you will have to use a Beo4 remote control (optional accessory) to do the following:

– Switch the loudspeakers on and off;
– Turn the volume level up or down;
– Adjust the left–right sound balance (when you switch on the loudspeakers, the balance is always neutral);
– Store and reset sound levels.

Although BASS, TREBLE, LOUDNSS are available in the Beo4 display you cannot adjust these levels using Beo4. We recommend that you keep any tone control settings neutral.

For specific information about the Beo4 remote control, please refer to its enclosed Guide.



If BeoLab 5 is programmed to *Option 1*

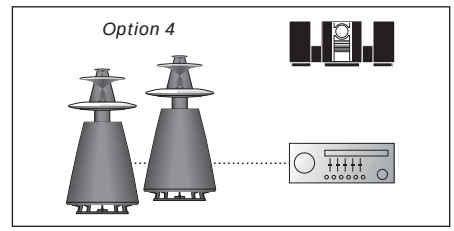
To switch BeoLab 5 on/off...
> Press RADIO to switch on.
> Press • to switch off.

To turn the volume level up/down...
> Press ∧ to turn the volume up.
> Press ∨ to turn the volume down.

To reset the sound level...
> Press LIST until RESET* is shown in the Beo4 display.
> Press GO to reset sound level.

To shift the left–right sound balance...
> Press ◀◀ to shift the sound towards the left, and press ▶▶ to shift the sound towards the right.

To store a new start up sound level...
> Press ∧ ∨ until you reach your preferred start up sound level.
> Press LIST until A.SETUP* is shown in the Beo4 display.
> Press GO to accept.
> Press LIST until S.STORE is shown in the Beo4 display.
> Press GO to store the new start up level.



If BeoLab 5 is programmed to *Option 4*

To switch BeoLab 5 on/off...
> Press LIST until LINK* is shown in the Beo4 display, and then RADIO to switch on.
> Press • to switch off.

To turn the volume level up/down...
> Press ∧ to turn the volume up.
> Press ∨ to turn the volume down.

To reset the sound level...
> Press LIST until RESET* is shown in the Beo4 display.
> Press GO to reset sound level.

To shift the left–right sound balance...
> Press ◀◀ to shift the sound towards the left, press ▶▶ to shift the sound towards the right.

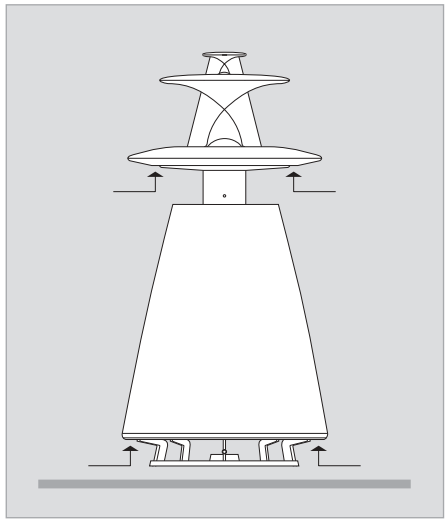
To store a new start up sound level...
> Press ∧ ∨ until you reach your preferred start up sound level.
> Press LIST until A.SETUP* is shown in the Beo4 display.
> Press GO to accept.
> Press LIST until S.STORE is shown in the Beo4 display.
> Press GO to store the new start up level.

**Must be added to the Beo4 LIST-function. To do so, refer to the Beo4 Guide.*

Setting up BeoLab 5

We recommend that you follow this procedure:

– Disconnect your audio or video system from the mains;
– Make all the connections as described in *Cable connections* (pp. 8–10);
– Connect the loudspeakers to the mains;
– If necessary, program the loudspeakers to your audio or video system, as described in *Adapt BeoLab 5 to your system* (p. 11);
– Let the loudspeakers perform the *Adaptive Bass Control* calibration, as described in *Adapt BeoLab 5 to your room* (pp. 12–13);
– Connect your audio or video system to the mains again.



Handling BeoLab 5: *Due to its heavy weight, any moving or lifting should always be done by two persons. 'Safe areas' to hold when moving/lifting the loudspeaker are indicated in the illustration.*

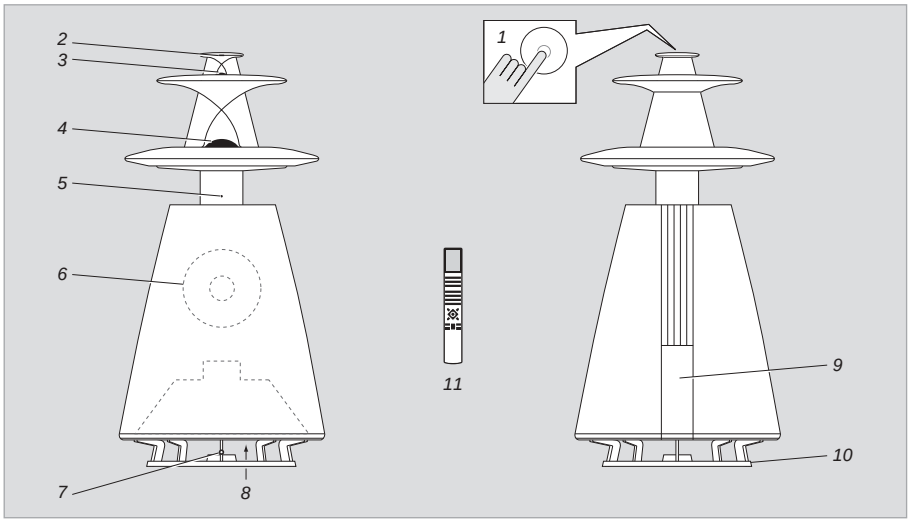
Do not move the loudspeaker without lifting it clear of the floor, as damage to the floor may result!

Cautions

– Do not attempt to open the loudspeaker. Leave such operations to qualified service personnel!
– Make sure that the loudspeaker is placed and connected in accordance with the instructions in this Guide.
– Place the loudspeaker on the floor.
– Do not place any items on top of the loudspeaker.
– Do not touch the two speaker domes! Use the enclosed brush only when cleaning – please refer to *Cleaning BeoLab 5* (p. 4) for further information.
– The loudspeaker is designed for indoor use in dry, domestic environments only, and for use within a temperature range of 10–40º C (50–105º F).

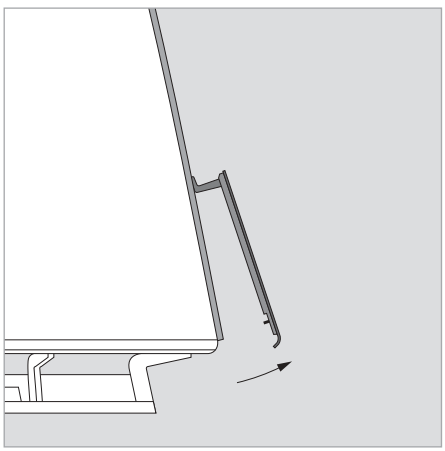
Before you start…

– If you connect the loudspeaker to a non-Bang & Olufsen system, you will need a Beo4 remote control (optional accessory), in order to be able to operate the loudspeaker, e.g. switching on and off, turning the volume level up or down, etc.
– Volume levels are adjusted in the built-in loudspeaker amplifiers, not in your audio or video system, and we recommend that you keep any tone control settings neutral.
– Remember that all loudspeakers in a setup must be connected to the mains.

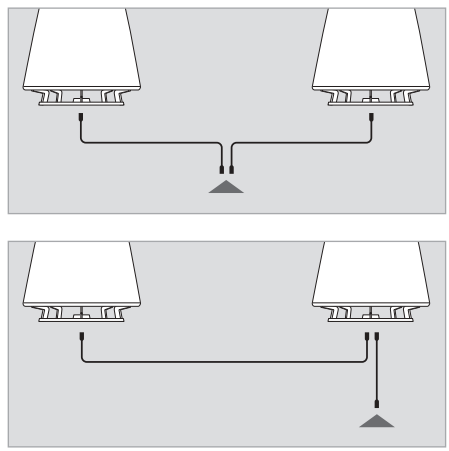


The illustration to the left shows the placement of different parts:

1 Touch field
2 Indicator light
3 High frequency speaker dome – *do not touch!*
4 Mid frequency speaker dome – *do not touch!*
5 Receiver for Beo4 remote control signals
6 Upper bass speaker unit
7 Moving microphone for the *Adaptive Bass Control* system
8 Lower bass speaker unit
9 Cover for socket panel
10 Base
11 Beo4 remote control (optional accessory)



Cover for socket panel: *To get access to the sockets and the RIGHT–LEFT switch, you will have to remove the cover. To do so, pull out the bottom edge of the cover, as illustrated above.*



Power Link connections: *Power Link connections carry both the right and left sound signals. Such cables may be run in two ways:*

1 Run a Power Link cable from the Bang & Olufsen system directly to each loudspeaker.
2 Run a Power Link cable from the Bang & Olufsen system to the first loudspeaker. Run another Power Link cable from the first loudspeaker to the next (this may help to minimize cable clutter).

Connect cables

The loudspeaker can be connected to Bang & Olufsen audio and video systems as explained on page 9. It may also be connected to non-Bang & Olufsen systems as explained on page 11.

Use the illustrations and the graphics imprinted on the socket panel when locating the sockets and the switch.

For specific information about the sockets on your audio or video system, please refer to the Guide enclosed with the system.

Socket and switch panel

To get access to the panel, remove the cover on the rear of the loudspeaker as explained on page 7.

DIGITAL OUT
Phono socket/RCA socket used to forward the digital signal from the first loudspeaker to the next (SP/DIF unbalanced).
Digital connections carry both the right and left sound channels.

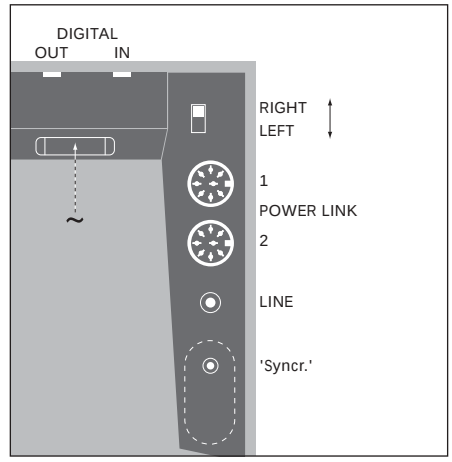
DIGITAL IN
Phono socket/RCA socket used for connection to a system with a digital output (SP/DIF unbalanced).
Digital connections carry both the right and left sound channels.

~
Socket for connection to the mains supply.

RIGHT – LEFT
This switch sets the loudspeaker to play either the right or the left sound channel. Set this switch to RIGHT or LEFT respectively, when connecting the loudspeaker using any of the sockets marked POWER LINK, or the sockets marked DIGITAL.
When you connect the loudspeaker using the socket marked LINE only, you may leave the switch in either position.

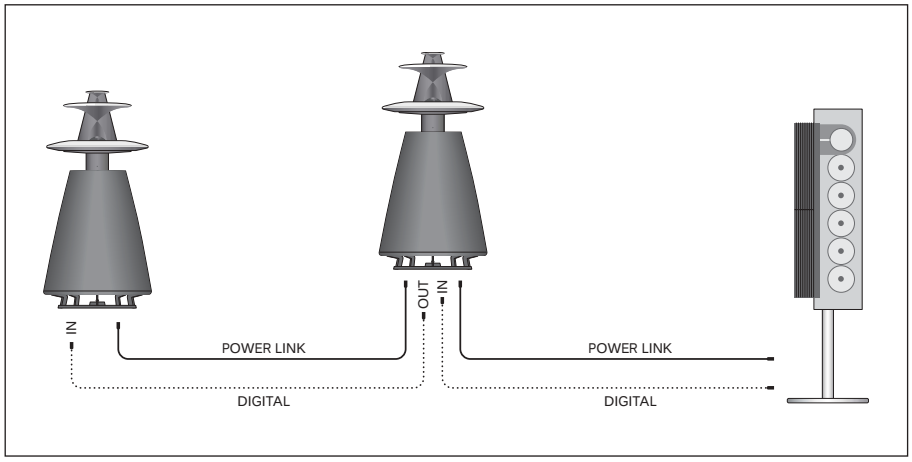
POWER LINK 1 – 2
Sockets for connection to Bang & Olufsen audio or video systems.
Power Link connections carry both the right and left sound channels.

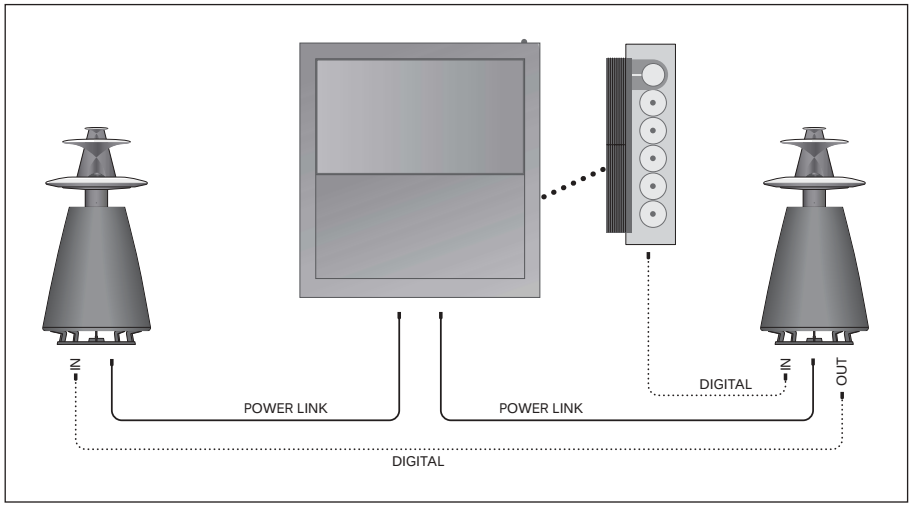
LINE
Phono socket/RCA socket for connection to non-Bang & Olufsen audio or video systems.
The LINE signal must be a non-regulated line signal (≤ 2 V RMS). If the LINE output level exceeds 2 V RMS, you must use an optional attenuator on the LINE input socket of each loudspeaker.



The 'Syncr. connection' is hidden beneath a small cover. To get access, just pry the cover off.

'Syncr. connection'
Stereo mini-jack socket for connection between two BeoLab 5 speakers in a setup. Used when connecting to non-Bang & Olufsen systems only. The connection ensures that both loudspeakers always play at the same volume level.





For connections in other Bang & Olufsen digital systems, please refer to the Guide enclosed with those systems.

Connection to Bang & Olufsen systems

The loudspeaker can be connected to all Bang & Olufsen audio and video systems equipped with Power Link sockets. It can also be connected to Bang & Olufsen systems that have a digital output socket.

Remember to set the switch marked RIGHT–LEFT to the correct position on each loudspeaker!

POWER LINK connections

Use the enclosed Power Link cables to connect the loudspeakers to your system. Power Link connections may be run in two ways as explained on page 7.

Longer cables are available from your Bang & Olufsen retailer. However, you should not use longer cables than necessary.

IMPORTANT: Use fully mounted Power Link cables only – not the very thin type! If the wrong type of Power Link cables are used, the loudspeaker will not play. If in doubt, ask your Bang & Olufsen retailer.

DIGITAL connections

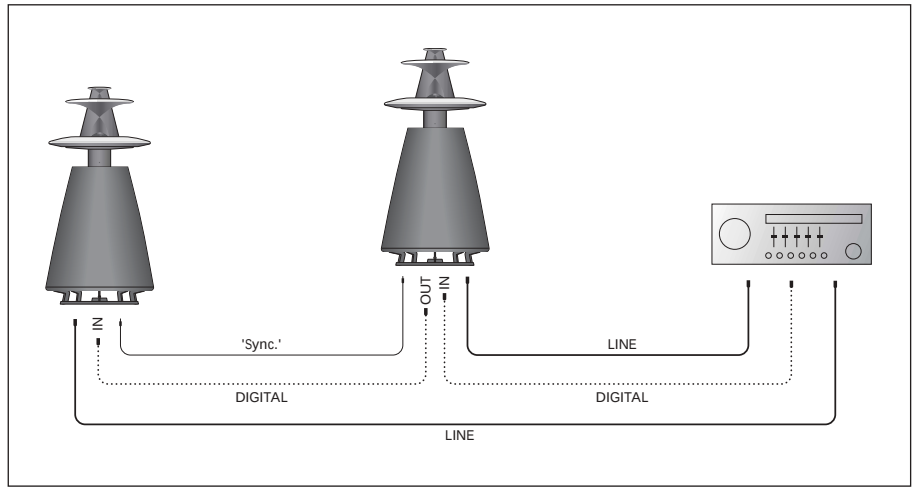
If your Bang & Olufsen system has a digital output socket, we recommend that you connect the loudspeakers directly to this socket as well. This ensures optimal sound quality when playing digital sources (CD's). Use ordinary phono cables (RCA) to connect the loudspeakers to your system.

Connection to non-Bang & Olufsen systems

The loudspeaker may be connected to most non-Bang & Olufsen audio or video systems equipped with a non-regulated LINE level output (volume levels are adjusted in the built-in loudspeaker amplifiers, not in the audio or video system).

The loudspeaker may also be connected to most systems with a digital output socket (SP/DIF).

When connecting to non-Bang & Olufsen systems, remember to change the 'Option' setting to either 1 or 4, as explained in 'Adapt BeoLab 5 to your system' (p. 11).



LINE connections
Use ordinary phono cables to connect each loudspeaker directly to your system.

If the LINE output level of your non-Bang & Olufsen system exceeds 2 V RMS, you must use an optional attenuator on the LINE input socket of each loudspeaker.

'Syncr.' connection
Connection between the two loudspeakers. The connection ensures that both loudspeakers always play at the same volume level.

Use a cable with a stereo mini-jack plug in each end to connect the two loudspeakers in a setup.

DIGITAL connections
If your system has a digital output socket, we recommend that you connect the loudspeakers to this socket as well. This ensures optimal sound quality when playing digital sources.

Use ordinary phono cables to connect the loudspeakers to your system.

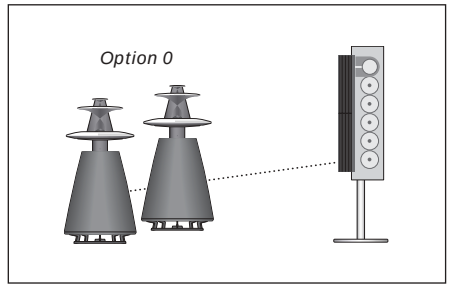
When using digital connections, remember to set the switch marked RIGHT–LEFT to the correct position on each loudspeaker!

Adapt BeoLab 5 to your system

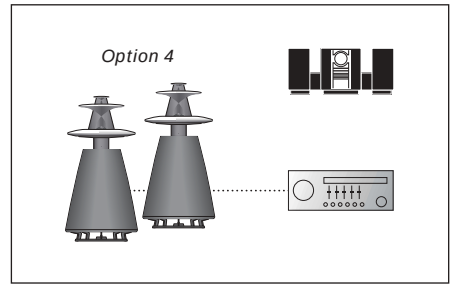
The loudspeaker is set to *Option* number 0 from the factory. Therefore, when you connect the loudspeaker to a Bang & Olufsen audio or video system, it is not necessary to change the *Option* setting. In this case, the loudspeakers are controlled via the Bang & Olufsen system.

However, when the loudspeaker is connected to a non-Bang & Olufsen system, you must change the *Option* setting. In this case, the Beo4 remote control signals are received and processed by the loudspeakers. Two different *Option* settings are available – which to use depends on your setup.

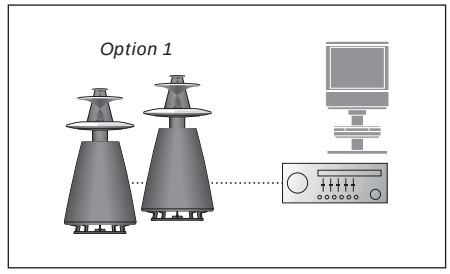
If the LINE output level of your non-Bang & Olufsen system exceeds 2 V RMS, you must use an optional attenuator on the LINE input socket of each loudspeaker.



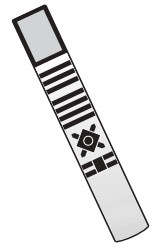
Option 0 *(factory setup): Used if connected to a Bang & Olufsen audio (or video) system.*



Option 4: *Used if connected to a non-Bang & Olufsen system – and you have an extra Bang & Olufsen audio system in the same room.*



Option 1: *Used if connected to a non-Bang & Olufsen system. You may have a Bang & Olufsen television in the same room, if you wish.*



A Beo4 remote control is used to change the 'Option' setting.

To change the *Option* setting:

> While holding down the • button, press LIST.
> Let go of both buttons.
> Press LIST repeatedly until OPTION? is shown in the Beo4 display.
> Press GO.
> Press LIST repeatedly until L.OPT is shown in the Beo4 display.
> Key in the appropriate *Option* number (0, 1 or 4).

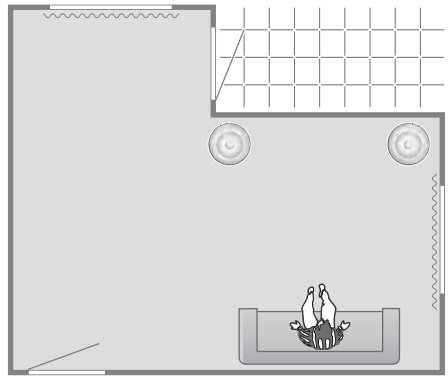
.

The red indicator light switches off briefly, confirming that the new *Option* number has been stored. *To ensure that all loudspeakers are programmed to the correct number, repeat the procedure for each loudspeaker separately.*

Adapt BeoLab 5 to your room

The *Acoustic Lens Technology* system in BeoLab 5 ensures better balance between sound in the high and mid tone frequencies coming directly from the loudspeaker, and sound reflected by the room. The *Acoustic Lens Technology* system also ensures correct tonal balance in the whole area in front of the loudspeaker.

The BeoLab 5 *Adaptive Bass Control* system and the *Acoustic Lens Technology* system ensures optimum freedom in the placement of your loudspeakers. Performing a calibration of the *Adaptive Bass Control* system ensures that the loudspeaker is optimally suited to its placement and the surroundings – and therefore, gives the best possible sound quality.



The 'Adaptive Bass Control' calibration ensures that the bass level suits the placement of the loudspeaker, and thus the surroundings.

When you switch the loudspeaker on for the first time, the indicator light flashes slowly green – signalling that it has not yet been calibrated.

Adaptive Bass Control calibration

Normally, when a loudspeaker is placed in a corner, the bass level is boosted compared to the bass level in a loudspeaker placed in a more freestanding position.

With other speaker systems, you have to consider this when placing them. With BeoLab 5, the *Adaptive Bass Control* system – when calibrated – filters out this change in the bass level.

During the calibration, the loudspeaker generates a series of sound signals and measures the response from walls, the floor, the ceiling, large objects and other surfaces in the room. Based on these measurements, the loudspeaker automatically calculates optimal settings for the *Adaptive Bass Control* filter.

Important!

- Before you start the calibration, place the loudspeaker where you want it to be.
- Do not calibrate more than one loudspeaker at a time. Otherwise, the sound emitted from one loudspeaker interferes with the measurements done in the other, and vice versa.
- If you, later on, decide to move the loudspeakers, rearrange your room, carpet the floor, etc., we recommend that you perform the calibration for each loudspeaker once again.
- We recommend that you keep any tone control settings neutral.

Make sure that no noise interferes with the calibration sounds emitted by the loudspeaker. Such noise might, for example, be: a running vacuum cleaner, ventilation or air conditioning systems, motor sounds nearby, etc. Up to a certain level, the loudspeaker will try to compensate for this noise, but eventually, the noise may cause the calibration to fail – indicated by a slowly flashing red light. Should this happen, you must restart the calibration – perhaps later on, when the noise has stopped…

SAUSALITO AUDIO WORKS

Acoustic Lens Technology – manufactured under license from Sausalito Audio Works.

To calibrate BeoLab 5

Perform the calibration for each loudspeaker in your setup separately. The calibration takes a couple of minutes for each loudspeaker.

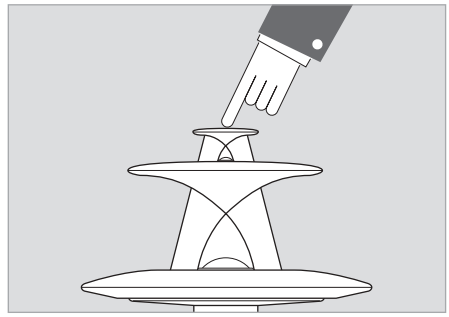
> Make sure that the loudspeaker is in standby, and that the indicator light shines red. If necessary, switch the loudspeaker to standby as explained in 'Daily use' (pp. 4–5).
> Press and hold the touch field for more than three seconds, then let go of the panel.
When the calibration begins, the indicator light flashes green.

Once started, and during the calibration, the following occurs:

– The microphone extends a little, and the speaker generates a series of sound signals, starting with very low bass tones.
– After a while the microphone extends a little further, and the sound signals begin again.
– When the calibration is complete, the microphone retracts and the loudspeaker switches to standby. The indicator light shines red. You may now proceed with the next loudspeaker.

If the indicator light flashes red, an error has occurred during the calibration. To solve this, do the following:

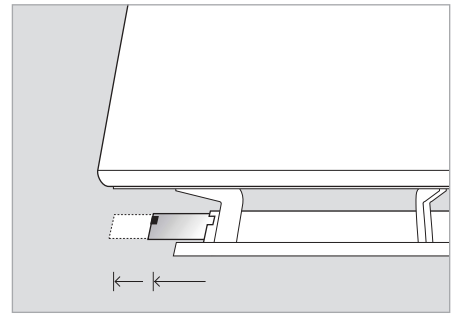
> Press and hold the touch panel for more than one second, then let go of the panel.
The loudspeaker will switch to standby, and the indicator light shines red.
> Press and hold the touch panel for more than three seconds to start the calibration again.



Press the touch field on the loudspeaker you wish to calibrate (while you are pressing, the indicator light quickly flashes red).

If you wish to cancel an ongoing calibration, press the touch field again – or press EXIT on the Beo4 remote control.

For an overview of the indicator lights, refer to page 14.



The moving microphone is used during the calibration. Make sure that there is always free space in front of the microphone.

Indicator lights and sound signals

In daily use, you will see that the indicator light shines either red (standby) or green (playing).

In different situations, you may see other indications, such as a flashing red or green light, and combinations of these colours.

These instances are explained in the relevant chapters throughout this Guide, but to give you an overview, all instances are explained on this page. In the overview, you will find page references to relevant chapters.

Indicator light:	Loudspeaker status:
Shines RED…	The loudspeaker is in standby (p. 4).
Shines GREEN…	The loudspeaker is on (p. 4).
Flashes intermittently RED/OFF (1 sec./1 sec.)…	Internal loudspeaker error (p. 4).
Flashes RED (very quickly)…	You are pressing the touch panel.
Flashes intermittently GREEN/OFF (1 sec./1 sec.)…	*Adaptive Bass Control* calibration in progress (pp. 12–13).
Flashes intermittently RED/OFF (0.5 sec./0.5 sec.)…	An error occurred during *Adaptive Bass Control* calibration (pp. 12–13).
Flashes intermittently GREEN/OFF (2 sec/0.5 sec.)…	*Adaptive Bass Control* calibration has not yet been performed (pp. 12–13).
Switches briefly OFF, and then shines red again…	*Option* setting has been accepted (p. 11).

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For your information…

Your needs as a user are given careful consideration during the design and development process of a Bang & Olufsen product and we strive to make our products easy and comfortable to operate.

Therefore, we hope that you will take the time to tell us about your experiences with your Bang & Olufsen product. Anything which you consider important – positive or negative – may help us in our efforts to refine our products.

Thank you!

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